

100-3-20/40

Some Characteristics of a Voltage Converter with a Pulsed "Reactor".

resistance of the circuit. The energy balance in the rectifier with no loss in the reactor is:

$$FC(U_m - E)^2/2 = E^2/(R_1 + R_2), \quad (12)$$

where U_m is the voltage on the reactor under no-load conditions. E is the average voltage on the first capacitor of the filter. Then

$$E/U_m = \sqrt{R_1 FC / (2 + R_1 FC)}, \quad (13)$$

$$E = I_m \sqrt{R_1 FL_{45} / (2 + R_1 FC)}, \quad (14)$$

$$E = I_m \frac{L_{45}}{C} \left[\sqrt{1 + \left(2\pi \frac{f I_m}{F I_m} \right)^2} - 2\pi \frac{f I_m}{F I_m} \right]$$

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120-3-28/40

Some Characteristics of a Voltage Converter with a Pulsed "Reactor".

where $I_H = \frac{E}{R_1}$ - mean load current.

Because $R_{oe} \neq \infty$, and, providing that

$$2\sqrt{2}R_1FC/Q \sqrt{2 + R_1FC} \ll 1, \quad (16)$$

is fulfilled, the relationship between the output voltage and the load resistance will be approximately

$$\frac{E}{U_m} \approx \sqrt{\frac{R_1FC}{2 + R_1FC}} \sqrt{1 + \frac{5.64}{Q\sqrt{2 + R_1FC}}} \quad (17)$$

or

$$\frac{E}{U_m} \approx I_M \sqrt{\frac{R_1 F \cdot L_{45}}{2 + R_1FC}} \sqrt{1 + \frac{5.64}{Q\sqrt{2 + R_1FC}}} \quad (18)$$

and the voltage drop under load becomes

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120-3-28/40

Some Characteristics of a Voltage Converter with a Pulsed "Reactor".

$$\frac{E_o - E}{E_o} = \Delta = 1 - \sqrt{\frac{R_H(2 + R_{HO}FC)}{R_{HO}(2 + R_H.F.C)}} \quad (19)$$

The load characteristic is given in Fig.2. Negative feedback can be used to improve the load characteristic. A fraction of the output voltage is compared with a small constant voltage, and the difference passed through a DC amplifier to the grid of the driving valve. This causes a reduction in the difference voltage. A simplified circuit is given in Fig.3. The load characteristic for the stabilized pulsed converter is next derived. It is assumed that (1) to (6) are fulfilled and also that $R_\phi < R_H$. The following denotation is used:

$$K_E = \frac{E}{I_M} = \frac{dE}{dI_M} = \sqrt{\frac{R_H FL_{45}}{2 + R_H FC}} \quad (19a)$$

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Some Characteristics of a Voltage Converter with a Pulsed "Resistor".

$K_{y_{ref}}$ - gain of the DC amplifier; E_{ref} - reference voltage;
 S - slope of λ_2 ; β - transfer coefficient of the feedback loop

$$\beta = \frac{dI_M}{dE} = \frac{E_{ref}}{E - E_{ref}} K_{y_{ref}} S. \quad (20)$$

and no-load characteristic

$$E = E_0 \frac{K_E}{K_{E0}} \frac{\beta K_{E0} - 1}{\beta K_E - 1}, \quad (22)$$

where E_0 and K_{E0} are the output voltage and the transfer coefficient respectively with an infinite load. The voltage drop under load is

$$\frac{E_0 - E}{E_0} = \frac{K_{E0}(\beta K_E - 1) - K_E(\beta K_{E0} - 1)}{K_{E0}(\beta K_E - 1)}. \quad (23)$$

Card 7/11 If βK_E is much greater than unity (as required for good

120-3-28/40

Some Characteristics of a Voltage Converter with a Pulsed "Reset".
(stability), Eq. (22) can be simplified

$$E = E_0 \frac{K_E}{K_E - 1} \left(\frac{K_{E0} - 1}{K_E - 1} \right) = E_0 \left(1 - \frac{1}{\beta K_E} + \frac{1}{\beta K_{E0}} \right) \quad (24)$$

or $E/E_0 = 1 - (K_E/K_{E0} - 1)/\beta K_{E0}$.

and the voltage drop under load becomes

$$\delta = \frac{E_0 - E}{E_0} = \frac{1}{\beta K_E} \left(1 - \frac{K_E}{K_{E0}} \right)$$

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120-3-22/40

Some Characteristics of a Voltage Converter with a Pulsed "Resistor".

$$= \frac{\sqrt{2 + R_H F C}}{\beta \sqrt{R_H F C}} \left[1 - \sqrt{\frac{R_H (2 + R_{EO} F C)}{R_{EO} (2 + R_H F C)}} \right]. \quad (25)$$

Considering Eq. (17) and Eq. (19a), Eq. (25) becomes

$$(E_0 - E)/E_0 = \Delta / \beta K_E, \quad (27)$$

where Δ is the reduction under load without feedback. Fig. 4 shows the load characteristic for the stabilized converter. For the case when Q is not infinite,

$$2 \sqrt{2} R_H F C / Q \sqrt{2 + R_H F C} \ll 1, \quad (28)$$

$$\delta R_{oe} \approx \frac{1}{\beta} \sqrt{\frac{2 + R_H F C}{R_H F C}} \quad 1 -$$

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120-3-22/40

Some Characteristics of a Voltage Converter With a Pulsed "Reactor".

$$- \frac{2.02}{Q \sqrt{1 + R_{10} F_0}} \left\{ 1 - \sqrt{\frac{R_{10}(1 + R_{10} F_0)}{R_{10}(1 + R_{10} F_0)}} \cdot \left[1 - \frac{2.32}{Q} \left(\frac{1}{\sqrt{1 + R_{10} F_0}} - \frac{1}{\sqrt{1 + R_{10} F_0}} \right) \right] \right\} \quad (29)$$

are applicable and calculation shows that the voltage drop on load for $Q = 11$ differs from the drop when $Q = 1$ by 11%. The next case considered is where the stabilized converter is regulated by a variable potentiometer. The expression for the output voltage versus the angular position of the regulator is derived and plotted in Fig. 5. Finally, the

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120-5-28/40

Some Characteristics of a Voltage Converter with a Pulsed "Reactor".
effect of the load value on the duration of the reactor
pulse is analyzed. There are 7 figures and 11 references,
of which 2 are Russian and 9 English.

SUBMITTED: October 5, 1956.

AVAILABLE: Library of Congress.

Card 11/11 1. Converters-Voltage-Characteristics 2. Mathematics-Theory

RAVIKOVICH, V.M.

All-Union Conference of the Chemistry and Physics of Cellu-
lose. Buim.prom. 34 no.8:26-27 Ag '59. (MIRA 12:12)

1. Institut khimii polimerov AN Uzbekskoy SSR.
(Cellulose--Congresses)

RAVIKOVICH, Ye. A.

Formation of underground water of hydrous sodium carbonate type
(as exemplified by the Fergana Depression). Geol. nefti 1' no. 4:
50-55 Ap '57. (MIRA 10:8)
(Fergana--Water, Underground) (Sodium carbonates)

RAV IKOVICH, Ye.A.

Regularities of the change of salt content in waters, petroleum,
and gases of the Fergana oil fields. Neft.khoz. 33 no.4:54-56
Ap '55. (MLRA 8:7)

(Fergana--Oil field brines)

RAVIKOVICH, Ye. A.

AID P - 2099

Subject : USSR/Geology

Card 1/1 Pub. 78 - 12/24

Author : Ravikovich, Ye. A.

Title : ~~REGULARITY IN THE CHANGE OF THE SALT CONTENT OF WATERS,~~
Regularity in the change of the salt content of waters,
oils and gases in the Fergana oil formations

Periodical: Neft. khoz., v.33, no.4, 54-56, Ap 1955

Abstract : A survey of the oil wells drilled in the Fergana Valley
has shown the types and chemical content of water in
different strata and has given a good picture of their
structure.

Institution: None

Submitted : No date

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0014443

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

1ST AND 2ND COLUMNS

PROCESSING AND PROPERTIES INDEX

3RD AND 4TH COLUMNS

B-I-2

Refining cylinder oil distillate from Greeny
mined-bar crude oil with phenol in a solution of
propene. A. H. RAYMONDSON and E. S. LUSSEN-
NOVA (Ann. Real. Chem., 1954, 55, 7/8, 100-104).
The above crude oil when treated with PhOH-
C₃H₈ gave an unsatisfactory comp. index. De-
waxing should precede the treatment. Ch. Ann. (c)

5TH COLUMN

6TH COLUMN

7TH COLUMN

8TH COLUMN

9TH COLUMN

10TH COLUMN

11TH COLUMN

12TH COLUMN

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43TH COLUMN

44TH COLUMN

45TH COLUMN

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
Determination of paraffin content of commercial paraffins and oil-paraffin mixtures (intermediate products). A. M. RAYMOND and V. N. KUCHEV (J. Appl. Chem. Russ., 1955, 8, 173-176).—Oil is separated from paraffin by extraction with 3:1 EtOAc-EtOH at -50°. R. T.																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
FROM STRIP										FROM BOMBY									
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[illegible]

1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
PROCESSES AND PROPERTIES INDEX			
BC		B-1-4	
Electrolytic preparation of copper-nickel alloy. N. A. Kuznetsov and C. M. Boykovskiy (J. Gen. Chem. Russ., 1959, 3, 1448-1450). Electrodeposition of Cu-Ni alloy from aqueous electrolyte (cf. B., 1959, 551; 1959, 552) is satisfactory owing to the high quality of the deposit and the stability of the electrolyte. Satisfactory results are achieved by electrolysis of an CuSO_4-NiSO_4-H_2SO_4 in presence of H_2SO_4 and gum arabic or crude carboxylic acid under conditions such that the polarization potentials of the anode are close to each other. The polarization curves correspond with the equation $\Delta\phi = \Delta\phi_0$, where $\Delta\phi_0$ is the difference between the p.d. of a given a.d. B and the equilibrium potential, and A and n are const. for a given system under given conditions. M. T.			
ASB-11A METALLURGICAL LITERATURE CLASSIFICATION			
SOURCES OF INFORMATION		SOURCES OF INFORMATION	
123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100		123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100	

CIA-RDP86-00513R0014443

FAVIKOVICH, Ye. M.

Moscow State Inst. of Epidemiology and Bacteriology, (-1944-)

"Epidemiological materials concerning efficiency of the vaccine against typhus exanthematicus,"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., Nos. 7-8, 1944.

RAVIKOVICH, YE. M.

29925

I Divovarova, Ye. A. Primenyeniye gammaglobulina v dyetskikh uchayezhdyenyakh dlya profilaktiki kori. Prediatkiya, 1949, No 4, s. 31-34

SO: LETOPIS' NO. 40

RAVIRKOVICH, -DMITRIYEV, Ye. M.

see DMITRIYEV-RAVIRKOVICH, Ye. M.

8(3)

SOV/112-59-2-2795

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 74 (USSR)

AUTHOR: Ravin, B. I.

TITLE: Advance of Major Designs of Electric Transmission Lines
(Razvitiye osnovnykh konstruktsiy liniy elektroperedachi)

PERIODICAL: V sb.: Energ. str-vo SSSR za 40 let. M.-L., Gosenergoizdat,
1958, pp 195-204

ABSTRACT: With the development of electric transmission lines, their voltage rises, and new requirements appear. This is reflected by the rules and standards. The major requirements of transmission-line designs are: saving on materials, lighter structural members of lower cost, simplifying erection, longer structure life, lower operating expenses. Amendments issued in 1957 to transmission-line construction rules (PBL-47) envisage lighter structure design: lower values are set for the design wind loading, for conductor-strength safety factor, for the design reduced tension on a wire break; guyed

Card 1/2

SOV/112-59-2-2795

Advance of Major Designs of Electric Transmission Lines

poles are now permitted in both inhabited and uninhabited areas, etc. Structural development is demonstrated on 110-220-kv wood towers, 110-, 154-, 220-, and 400-kv metal towers, 110-kv reinforced-concrete towers. Metal-tower foundations are described. It is noted that aluminum and aluminum-steel conductors have become major material for transmission lines. The necessity of introducing fiberglass and plastics in transmission-line constructions, for simplifying and improving line hardware and insulators, etc., is pointed out.

Card 2/2

L 22573-66

ACC NR: AT6012975

SOURCE CODE: UR/0094/65/000/009/0043/0043

AUTHOR: Bol'sham, Ya. M.; Vinogradov, A. A.; Volobrinskiy, S. D.; Geyler, L. B.;
 Grudinskiy, P. G.; Dolginov, A. I.; Zil'berman, R. I.; Kazak, N. A.; Kletenik, B. I.;
 Knyazevskiy, B. A.; Livshits, D. S.; Mel'nikov, N. A.; Minin, G. P.; Mukoseyev,
 Yu. L.; Nayfel'd, M. R.; Petrov, I. I.; Ravin, V. I.; Samover, M. L.; Serbinovskiy,
 G. V.; Syromyatnikov, I. A.

ORG: none

TITLE: Lev Veniaminovich Litvak (on the occasion of his 60th birthday)

SOURCE: Promyshlennaya energetika, no. 9, 1965, 43

TOPIC TAGS: electric engineering personnel, electric power engineering

ABSTRACT: The noted specialist of industrial power production, Candidate of Technical Sciences, Docent of the Correspondence Power Institute Lev Veniaminovich LITVAK began his engineering activity at the Moscow Association of State Electric Stations in 1929. Later he became one of the coauthors of all the "Directives for the increase of the power factor" issued in 1954, 1955, and 1961. He published 70 scientific papers. For his successful activities in defense industries during World War II he was decorated by "Znak Pocheta." After the war he concentrated on scientific-pedagogical work and in recent years worked actively in

Card 1/2

L 22578-66

ACC NR: AP6012975

the Teaching-Methodological Commission of the Ministry of Higher and Intermediate Special Education USSR, for the specialty "Electrical supply to industrial enterprises and cities." Orig. art. has: 1 figure. [JPRS]

SUB CODE: 05, 10, 09 / SUBM DATE: none

Card 2/2

BK

SULTANOV, Azal' Dzhafarovich; PUSTOVALOV, L.V., otv.red.; pri uchastii:
ATANESYAN, G.Z., sotrudnik; KORNILOVA, A.S., sotrudnik; KERSKAYA, G.V.,
sotrudnik; RAVINA, B.M., sotrudnik; MENZELEYEVA, S.A., sotrudnik;
PAPKOVA, M.K., sotrudnik; RYLINA, Yu.V., tekhn.red.

[Producing formation of the Apsheron Peninsula] Sovet po izucheniiu
proizvoditel'nykh sil. Azerbaidzhanskaya neftianaya ekspeditsiya.
Litologiya produktivnoi toshchi Apsheronskogo poluostrova. Moskva,
1958. 140 p. (MIRA 11:12)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil.
Azerbaidzhanskaya neftyanaya ekspeditsiya. 2. Chlen-korrespondent
AN SSSR (for Pustovalov). 3. Litologicheskaya laboratoriya Insti-
tuta geologii AN Azerbaydzhanskoy SSR (for Atanesyan, Kornilova,
Kerskaya, Ravina, Menzeleyeva, Papkova)
(Apsheron Peninsula--Petrology)

S/125/62/000/009/006/008
A006/A101

AUTHORS: Remizov, V. Ye., Ravin, M. M. (Moscow)

TITLE: Dismountable backing rings for one-sided automatic welding of containers

PERIODICAL: Avtomaticheskaya svarka, no. 9; 1962, 77 - 78

TEXT: The following types of dismountable backing rings are enumerated:
1) Rings which can be folded with the aid of hinges to facilitate their removal; they are recommended to be used in case the weld is located near the shell butt; if the ring is to be removed from the shell through an aperture whose diameter is smaller than the shell diameter, and for welding shells up to 300 mm in diameter;
2) Rings with a separate unclamping device. Several clamps on the ring circumference assure the tight abutting of the ring in shells over 300 mm in diameter;
3) For welding seams which are remote from the shell butt by more than 0.5 - 0.8 mm, a ring has been developed (Figure 4) with radially arranged pins 2, pressed with the aid of springs 3 against cone 4. During rotation of a screw the cone unclamps the pins and sections 5. The screw moves with the aid of an extended

Card 1/3

Dismountable backing rings for...

S/125/62/000/009/006/008
A006/A101

butt key 6. The described rings assure convenient assembly, mutual centering of the shells, absence of burns, and satisfactory formation of the reverse weld. They have been successfully used for several years at a machinebuilding plant. There are 4 figures.

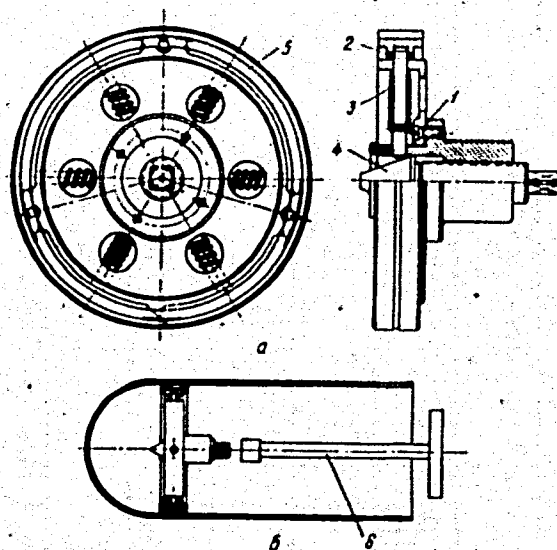
SUBMITTED: April 23, 1962

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Dismountable backing rings for...

9/125/62/000/009/006/008
A006/A101

Figure 4. Backing ring for welding
seams which are remote
from the shell butt



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22951

S/125/61/000/007/007/013
D040/D113

1.2300 also 1573

AUTHORS: Slutskaya, T.M., and Iskra, A.S.; Ravlin, M.M. (Moscow)

TITLE: Electro-slag welding process for 30-70 mm thick 30KhGSA steel

PERIODICAL: Avtomaticheskaya svarka, no. 7, 1961, 65-70

TEXT: The application of the electro-slag welding process to 30XГСА (30KhGSA) steel is investigated. Data were obtained under laboratory and shop conditions. Joints of up to 70 mm thickness were welded by an A-501M (A-501m) walking magnetic welder. Direct current with reversed polarity, an 18XMA (18KhMA) electrode wire 2.5 mm in diameter, and an AN-8 (AN-8) flux were applied. Welding was done without traverse electrode oscillations. A special device was built for moving the welder off the workpiece. The test welding arrangement is illustrated (Fig. 1). The welding conditions finally chosen are as follows (Table 2):

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22951

S/125/61/000/007/007/013

D040/D113

Electro-slag welding process...

Metal thickness, in mm	Number of electrodes	Electrode feed, in m/hr (per 1 wire)	Current, in amps (per 1 wire)	Voltage (in volts)	Slag bath depth, in mm	Dry electrode throat, in mm
70	2	180	300-325	34-36	40-45	35
30	1	180	275-300	40	30	35

The heat treatment is as follows: tempering at 690°C, oil quenching starting at 910°C and subsequent tempering at 510-550°C with cooling in air; 1 mm of the cross section of the metal is soaked for 3 min. The chemical composition of the steels and electrode wire used in experiments was (Table 1) as follows:

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Electro-slag welding process...

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S/125/61/000/007/007/013
DO4C/D113

Metal

	% Composition						
	C	Si	Mn	Cr	Mo	S	P
30KhGSA, 70 mm thick	0.32	0.93	0.90	0.94	-	0.029	0.029
30KhGSA, 30 mm thick	0.27	1.0	0.86	0.85	-	0.027	0.014
18KhMA wire	0.18	0.28	0.55	1.05	0.24	0.018	0.024

The following conclusions were drawn: (1) Standard 18KhMA wire and an AN-8 flux can be used for electrosag welding of 30KhGSA steel; (2) In the electro-slag welding of up to 70 mm thick 30KhGSA steel joints, neither preheating nor heating during the process is required; (3) The developed welding process ensures that the joints in 30KhGSA steel are sound and have satisfactory mechanical properties; (4) The strength of 30KhGSA steel joints after heat treatment equals 0.9 - 0.95 of the base metal strength; (5) The impact toughness of the weld metal and the metal near the welding area, after the above-described heat treatment, is higher than that of the base metal. There are 8 figures, 6 tables and 2 Soviet-bloc references.

Card 3/5

22951

S/125/61/000/007/007/013
D040/D113

Electro-slag welding process...

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O. Patona AN USSR (Electric Welding Institute "Order of the
Red Banner of Labor" im. Ye.O. Paton AS UkrSSR) (Slutskaya,
T.M. and Iskra, A.S.)

SUBMITTED: January 18, 1961

Card 4/5

RAVIN, V.K.

Dark inactivation of T-phages by acridine dyes. Biofizika 10 no.5:874
'65. (MIRA 18:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

L 8854-65 EWT(1)/EPA(s)-2/EWT(m)/EPT(c)/T/ENP(j)/EWA(b) Pc-4/Pr-4/Pt-10/
Pi-4/Pa-4 RM

ACCESSION NR: APL009154

S/0190/64/006/001/0103/0106

AUTHOR: Ravin, V. K.

TITLE: Study of the conformation and electrical properties of macromolecules on the basis of the electrical conductivity of their solutions in an electric field

SOURCE: Vyssokomolekulyarnyye soyedineniya, v. 6, no. 1, 1964, 103-106

TOPIC TAGS: polarizability, rotary diffusion, DNA molecule, mobility, macromolecule

ABSTRACT: A method for determining the orientation of macromolecules from changes in the electric conductivity of the solution has been described. From the orientation the polarizability and rotary diffusion constant of the molecules can be determined in a single measurement. The application of the method is shown for biopolymers with a DNA molecule of thymus (mol. wt. 6-8 million) prepared by the Kirby method and dissolved in distilled water. A single impulse of 1-10 μ sec duration and 700 V amplitude was applied, and the conductivity was determined by measuring the potential drop of 200 kc in the cell. On the basis of this experimental data it is proposed that the DNA molecules possess segmental mobility. The molecular weight of the segment is about 0.6 million. The polarizability has been found to be 3.8×10^{-14} , due to the phosphate groups. "The author expresses his
Cord 1/2

L 8854-65

ACCESSION NR: AP4009154

gratitude to staff members L. K. Koreneva, S. Ye. Golub, M. M. Mekshenkov, and V. V. Nazarenko of the Radiation Genetics Laboratory and especially to G. A. Dvorkin for his valuable advice and discussion, as well as to T. A. Kazachinskaya for preparing the graphics." Orig. art. has: 5 figures and 3 formulas.

ASSOCIATION: Institut biofiziki AN SSSR (Institute of Biophysics AN SSSR)

SUBMITTED: 13Aug62

ENCL: 00

SUB CODE: LS, EM

NO REF SOV: 002

OTHER: 004

Card 2/2

ACC NR:AP6034385 (N) SOURCE CODE: UR/0402/66/000/005/0573/0578

AUTHOR: Ravin, V. K.; Andreyeva, I. V.

ORG: Institute of Biophysics, AN SSSR (Institute biologicheskoy fiziki AN SSSR); Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN SSSR, Moscow (Institut epidemiologii i mikrobiologii AMN SSSR)

TITLE: A mutant of λ bacteriophage resistant to acridine orange

SOURCE: Voprosy virusologii, no. 5, 1966, 573-578

TOPIC TAGS: virology, cytology, immunology, bacteriophage, *DNA*
~~deoxyribonucleic acid~~

ABSTRACT: A mutant of λ bacteriophage resistant to acridine orange both within and outside the cell was obtained from cultures of *E. coli* K 12 λ . The mutant was serologically identical to wild-type phage. No differences were noted between strains in lysogenic capacity, sensitivity to ultraviolet

Card 1/2

UDC:576.856.9-095.57.097.22:615.778.292

ACC NR: AP6034385

light or in curves of single-cycle multiplication. Absorption spectra for DNA isolated from both resistant and wild-type strains of bacteriophage could not be distinguished. It was concluded that the resistance of the mutant to acridine orange is probably not due to the impermeability of its protein membrane for dye molecules. [JS]

Orig. art. has: 6 figures and 1 table
[WA-50; CBE No. 14]

SUB CODE: 06/ SUBM DATE: 21Mar64/ ORIG REF: 001/ OTH REF: 009

RATIN, V.K.; ANDRUSOVA, I.V.

Effect of ultraviolet irradiation on the temperate phage-bacterium complex in various stages after its formation. Mikrobiologiya 34 no.1:110-113 Ja-F '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR i Institut mikrobiologii i epidemiologii imeni N.F. Gamalei AMN SSSR.

1 000000 00 000000 00
ACC NR: AP6018999 SOURCE CODE: UR/0170/66/010/006/0750/0753

AUTHOR: Ravin, V. S.

ORG: none

TITLE: Solution of the heat conductivity equation

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 6, 1966, 750-753

TOPIC TAGS: heat conductivity, bounded function, thermal diffusion

ABSTRACT: It has been shown that the solution of a one-dimensional equation may be represented by a number of terms depending on the ascending order derivatives of bounded time functions. For a homogeneous medium, this representation coincides with the ascending negative power series of thermal diffusion. The author thanks B. Ya. Lyubov for his valuable criticism of the article. Orig. art. has: 11 formulas. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 16Dec65/ ORIG REF: 003/ OTH REF: 001/

Card

1/1 U/R

RAVINA, A.A.

Practices in organizing visits of mixed crews for the purpose of exchanging advanced methods. NTI no.6:12 '65. (MIRA 18:9)

1. Nachal'nik Otdela legkoy promyshlennosti TSentral'nogo byuro tekhnicheskoy informatsii Priokskogo soveta narodnogo khozyaystva.

L 31920-66 EWT(m)/EWP(j)/T IJP(c) RM
ACC NR: AT6007971 (A)

SOURCE CODE: UR/0191/66/000/003/0054/0057

AUTHOR: Fotokhina, Ye. S.; Molitavskiy, B. L.; Molotkov, R. V.; Batalin, O. Ye.;
Buslovich, Ye. Ya.; Rubinsteyn, E. I.; Ravkina, A. E.; Khannukova, E. S.; Slo-
bina, A. V.; Lykova, T. A.; Bychkova, V. A.

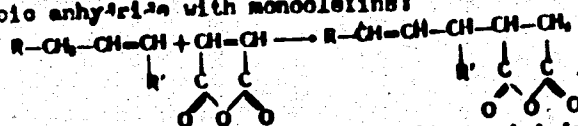
ORG: none

TITLE: Alkenylsuccinic acid anhydrides as hardening agents for epoxy resins

SOURCE: Plasticheskiye massy, no. 3, 1966, 54-57

TOPIC TAGS: epoxy plastic, hardening, solid mechanical property

ABSTRACT: The authors studied the synthesis and use of alkenylsuccinic acid an-
hydrides as liquid and low-toxic hardening agents for epoxy resins. The anhydrides
were synthesized in an electrically heated steel autoclave with a mixing device by
the reaction of maleic anhydride with monoolefins:



The following anhydrides were prepared: (acid, boiling point in C, at pressure 18 mm)
crotylsuccinic, 122-147, 8; pentenylsuccinic, 135-148, 8; heptenylsuccinic, 124-210,

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UIC: 678.643:42:5:678.043

L 31920-66

ACC NR: AP6007971

2

5; and a mixture of isooctenyl- and isononylsuccinic (ASA), 155-169, 8. Epoxy resins ED-5, ED-6, and EDL were hardened by ASA at 140C for 24 hr, using 93-115, 73-93- and 47-57 g of ASA over 100 g of epoxy resins respectively. Using dimethyl-aniline or triethanolamine as the accelerators, the hardening process was accomplished within 1.5-2 hr at 100C. With the exception of thermal stability, which was 25-35C lower, the physicochemical properties of the products obtained resembled very closely those obtained by the use of maleic anhydride as the hardening agent. Orig. art. has: 6 tables, 4 fig., and 1 formula.

SUB CODE: 11.07/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 003

Card 2/2

L 11141-66

ACC NR: AP6000783

SOURCE CODE: UR/0240/65/000/009/0114/0114

AUTHOR: Ravinskaya, F. S.; Gratsianskaya, L. V. 13
B

ORG: City Sanitation Epidemic Station (Gorodskaya sanepidstantsiya);
Sanitation Epidemic Station of Lenin Rayon, Leningrad (sanepidstantsiya
Leninskogo rayona)

TITLE: Working health conditions and incidence of disease of textile
mill workers

SOURCE: Gigiyena i sanitariya, no. 9, 1965, 114

TOPIC TAGS: industrial medicine, textile industry

ABSTRACT: The authors studied three groups of workers at a textile mill to determine the effects of unfavorable working conditions on disease incidence. The first group of workers was exposed to excessive dust; the second group was exposed to an insignificant amount of dust, a moderate amount of noise, increased air humidity, and physical strain (carrying loads of 8 to 12 kg); and, the third group was exposed to high room temperature and intensive noise. In each group there were more than 100 persons, mostly women, with no significant differences in age or length of employment. The authors found the highest incidence of disease with the highest loss of working days in the third

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UDC: 613.6:677.022

L 11141-66

ACC NR: AP6000783

group. This group had the highest number of angina cases and acute diseases of the respiratory passages and lungs, and this is attributed to high room temperature. A high incidence of hypertonic diseases and neuroses was also found and is attributed to intensive noise. The first group had the highest incidence of respiratory organ chronic diseases and skin diseases, and this is attributed to the excessive dust. The authors compared the data for the textile workers with data for garment workers in sewing plants where most of the unfavorable working conditions are absent and the workers are predominantly women. For the textile mill workers, the incidence of heart disease was 3 times higher, the incidence of ulcers was 6 times higher, and the incidence of pleuritis, bronchial, and hypertonic diseases was 2 times higher. The authors conclude that unfavorable working conditions increase the overall incidence of disease and certain nosological forms, and have made specific recommendations for improving conditions at the textile mill. Orig. art. has: none.

SUB CODE: 06/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

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Card 2/2

86110

S/112/59/000/012/030/097
A052/A001

11.1120

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 12, p. 78,
24447

AUTHORS: Ravinskiy, A.Ye., Vlasova, A.A.

TITLE: Ozone Production in Electric Glow Discharge ¹¹

PERIODICAL: Tr. Vses. elektrotekhn. in-ta, 1958, No. 61, pp. 232-241

TEXT: It is pointed out that with an increase of exposition the production of ozone from oxygen or air increases reaching the maximum at $\tau = 100-200$ sec. A further increase of exposition does not lead to an increase in the output of ozone. The maximum concentration of ozone in an ozonizer of a given design can be achieved at the minimum gas flow velocity, the maximum voltage and at a complete drying of the gas. In experiments with a number of ozonizers of the same type it has been found out that the energy output of ozone (in grams of ozone per 1 kw/hour of energy consumed in the ozonizer) depends practically on voltage only and amounts to 0.13-0.23 w/ml at the voltage on ozonizers changing from 10 to 12.5 kv. To

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86110

Ozone Production in Electric Glow Discharge

S/112/59/000/012/030/097
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obtain the maximum concentrations of ozone the air humidity must not exceed 1.2 g/m³. A detailed description of the design of a portable ozonizer is given; the ozonizer secures a concentration of ozone of over 5.5% at an efficiency of over 70 l/hour.

N.N.T.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

RAVINSKIY, M B

AUTHOR: R. vinskiy, M.B., Docent, Candidate of Technical Sciences
TITLE: Reorganization of the Course in General Chemistry is necessary (Nuzhno perestroit' izucheniye kursa obshchey khimii)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 22 - 25 (USSR)

ABSTRACT. The plan for an accelerated development of the chemical industry adopted by the May plenum of the TsK KPSS opens a new period. Great attention is to be attached to the proper chemical training of the engineering personnel of higher technical schools. The article of Professor I.N. Putilova and Docent G.A. Raytsyn in Nr 7/1958 of this periodical is referred to as elucidating the unsatisfactory situation which has existed in the teaching of general chemistry at non-chemical vtuzes. The author emphasizes the necessity for directed training on a high theoretical level, reflecting the most important problems of modern chemistry. He states that while the level of the training of students at secondary schools is steadily rising, this cannot be said of the higher school. The experience of the Chair of Chemistry of the Khar'kov Insti-

ard 1/2

SMIRNOV, K.I.; RAVINSKIY, M.I.

Cold welding of contact cables. Elek.i tepl.tiaga 3 no.12:
32-34 D '59. (MIRA 13:5)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva
Oktyabr'skoy dorogi (for Smirnov). 2. Nachal'nik Leningrad-
Finlyandskogo uchastka energosnabsheniya (for Ravinskiy).
(Electric cables--Welding)

RAVINSKIY, O.

Maturity of a sailor. Voen.znan. 37 no.7:28-29 J1 '61.
(MIRA 14:6)

(Submarine boats)

RAVIKOVICH, S.D.

~~Abstract~~ Molecular structure and evaporation heat of liquids. Ukr. fis. shur.
2 no.2:191-195 Ap-Je '57. (MIRA 10:6)

1. Kiivs'kiy medichniy institut im. akad. O.O. Bogomol'tsya, kafedra
fiziki.
(Liquids)

RAVISOVICH, V.M.

Some characteristics of voltage changers having pulse reactors.
Prib.i tekhn.eksp. no.3:96-101 My-Je '57. (MLRA 10:9)
(Voltage regulators) (Pulse techniques (Electronics))

RAVINKOV, A. A.

"Derives glyceriniques de la cellulose". Danilov, S. N.; Dynkin, M. E.; Orlova, N. I.;
Ravinkov, A. A. (p. 1674)

SO: Journal of General Chemistry
(Zhurnal Obshchei Khimii) 1939, Volume 9, #18

REMIZOV, V.Ye. (Moskva); RAVIN, M.M. (Moskva)

Removable backing rings for one-side automatically welded
vessels. Avtom. svar. 15 no.9:77-78 S '62. (MIRA 15:9)
(Electric welding—Equipment and supplies)

RAVIN, S. M.

Minorities

Teaching of I. V. Stalin on the multinational socialist Soviet state. Uch. zap.
Len. un., No 129, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

RAVIN, S. M.

Constitutional Law

Teaching of I. V. Stalin on the multinational socialist Soviet state, Uch. zap.
Len. un, No. 129, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

RAVIN, S. M.

Stalin, Josif, 1879-

Teaching of I. V. Stalin on the multinational socialist Soviet state, Uch. zap.
Len. un, No. 129, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

RAVIN, V.K.

Inactivation of bacteriophage by acridine orange. Biofizika 10 no.2:
261-267 '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

RAVIN, V.K.; ANDREYEVA, I.V.

Inactivation of the phage genome λ by acridine dyes following
infection with *Escherichia coli* K12G. Mikrobiologiya 33 no.5:
819-823 S-O '64. (MIRA 18:3)

1. Institut biofiziki AN SSSR.

RAVINOVI', M.

24776. RAVINOVI', M. Ekspirimental'noye Dokazatel'stvo Syshchestvovaniya
Obmennykh Yadernykh Sil. Uspekhi Fiz. Nauk. T. XXXVIII, VYP. 3, 1949,
S. 435-39.--Bibliogr: 10 NAZV.

SO: Letopis' No. 33, 1949

A

P

3-16. Experimental investigation of the flow of molten metals in an open channel. E. J. Raynitch. Reports of Academy of Sciences of U.S.S.R., v. 54, no. 3, 1980, p. 281-283. (In Russian)

Mechanism was investigated using a specially developed measuring apparatus. Data obtained are presented in the form of diagrams, showing that the mechanism of the molten metal flow under turbulent conditions does not differ from any common liquid turbulent flow.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R00

13

Experimental Investigation of the Flow of Molten Metals in an Open Channel. E. J. Ravinovich. Reports of Academy of Sciences of U.S.S.R., v. 84, no. 3, 1968, p. 201-203. (In Russian.)

Mechanism was investigated using a specially developed measuring apparatus which is described. Data obtained are presented in the form of diagrams, showing that the mechanism of the molten metal flow under turbulent conditions does not differ from any common liquid turbulent flow.

RAVINSKAYA, A.P.

Chromoxy tests in patients with opisthorchiasis. Med. paras. i paras.
bol. no. 5:532-536 '61. (MIRA 14:10)

1. Iz kafedry gosital'noy terapii Omskogo gosudarstvennogo medi-
tsinskogo instituta imeni M.I. Kalinina (sav. kafedroy - prof.
M.E. Vinnikov).

(LIVER FLUID)

(NERVOUS SYSTEM)

KOROZALOV, L. P.; LEVINSKIY, A. M.; KARPENKIN, V. M.; Engs.

Steam Boilers

Feeding scheme of boilers operating without a water caretaker, Elek. sta. 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

RAVINSKIY, L.M., inzhener.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444
28-29 P '53. (8:12)

1. Kakhovskaya gidroelektricheskaya stantsiya.
(Dredging machinery)

POLISHCHUK, V.A.; RAVINSKIY, L.M.

Industrial buildings on piles with an enlarged base. Proc. strci.
42 no.8:36-39 '65. (MIRA 18:9)

RAVINSKIY, Leonid Mikhaylovich; ROZNFEL'D, F.A., kandidat tekhnicheskikh nauk, retsenzent; SHKUNDIN, B.M., inzhener, laureat Stalinskoy premii, redaktor; UVAROVA, A.F., tekhnicheskiiy redaktor

[Use of the suction dredge apparatus 1000-80 in the construction of the Kakhov hydroelectric power station] Opyt raboty samlesosnogo snariada 1000-80 na stroitel'stve Kakhovskoi GES. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 52 p. (MLRA 9:9)
(Kakhov Hydroelectric Power Station)
(Dredging machinery)

~RAVINSKIY, O.~

In a underwater abyss. Starsh.-serzh. no.9:13 S '61. (MIRA 15:2)
(World War, 1939-1945—Naval operations)

RAVINSKIY, O.

Obelisk on a hill. Starsh.-serzh. no.8:8 Ag '61. (MIRA 14:10)
(Pacific Ocean—World War, 1939-1945)

RAVINSKIY, S. Ya.

RAVINSKIY, S. Ya. - "Operative Treatment of Mastitis During Lactation."
Sub 21 Oct 52, Central Inst for the Advanced Training of Physicians.
(Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

COUNTRY : Yugoslavia

H-28

RAVISAVLJEVIC
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 72981

AUTHOR : Jankovic, A.; Ravisavljevic.

INST. :

TITLE : Paris Bread without Crust

ORIG. PUB. : Proizv. i prerada brasna, 1958, 7, No 12,
234-235

ABSTRACT : No abstract.

CARD: 1/1

RAVITCH, M. I.

PA 8711

USSR/Chemistry - Systems, Ternary

Feb 1947

"The Composition of the Ternary System $\text{KNO}_3\text{-NaNO}_3\text{-H}_2\text{O}$," M. I. Ravitch, F. B. Ginsburg, 12 pp

"Izv Ak Nauk Khim" No 2

Investigation of the liquid diagram of the system from the melting points of the anhydrous salts down to the temperature of the complete freezing of the aqueous solutions, and an investigation of the composition of the solid phases.

8711

35078
S/109/62/007/003/021/029
D246/D302

9.1160 (1138, 1147)

AUTHOR: Ravitch, Yu.I.

TITLE: Theory of phototriodes

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 5, 1962,
525 - 535

TEXT: Although the phototriode transistor has found numerous applications, no satisfactory theory has been put forward so far. The author tries to construct such a theory. 5 equations for the diffusion and conservation of charge are given and solved for full current at an arbitrary potential and non-uniform illumination of the electrodes. It is shown that this current is equal to the combined current of all the carriers, separated by p-n junctions, multiplied by the coefficient of current amplification. Hence, it is immaterial which electrode region of the transistor is illuminated. The conditions for saturation are shown. The coefficient of current amplification is worked out for various cases: a) The inertia of the device, when illuminated by sinusoidally modulated light; b) Role

Card 1/2

Theory of phototriodes ...

S/109/62/007/003/021/029
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of the electric and quasi-electric fields, created by the non-uniform structure of the base and the emitter; c) phototransistor with wide forbidden band in the emitter region. The author gives a brief discussion of the role of surface recombination and of the following non-linear effects: a) Large illumination, when level of carrier injection in the base is high; b) Change of base width; c) Resistances and capacitances, shunting the emitter and collector junctions; d) Resistances of contacts and emitter and collector regions; e) Recombination and generation in electron-hole transitions. An equivalent circuit is also given. There are 2 figures and 30 references: 13 Soviet-bloc and 17 non-Soviet-bloc. The references to the English-language publications read as follows: H. Kroemer, RCA Rev., 1957, 18, 3, 332; H. Kroemer, Proc. IRE, 1957, 45, 11, 1535; R.H. Rediker, D.E. Sawyer, Proc. IRE, 1957, 45, 7, 994; M. Cutler and H.M. Bath, Proc. IRE, 1957, 45, 1, 39. ✓

SUBMITTED: April 3, 1961

Card 2/2

BC

B-I-1

Determination of pure pyrolyzed R. Rayner
(J. Appl. Chem. 1944, 18, 1874). The
loss of ammonia and pyrolysis is determined.
Then % pyrolyzed is given by $(1000/2224) - 1.224$,
where 2 is the % content of non-volatile org. sub-
stances. R. T.

ASD-16A METALLURGICAL LITERATURE CLASSIFICATION

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SECTION ANALYSIS

SECTION HISTORY

SECTION ANALYSIS

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Solubility isotherm of the ternary system $K_2O-FeO-SiO_2$. N. I. BAVITSKY (Dokl. Akad. Nauk S.S.S.R., 1958, No. 1, 167-170).—The isothermal curve exhibits 3 branches, corresponding with the solid phases observed at 80° (cf. preceding abstract) with $KOH \cdot H_2O$ accepted. Most of the branches can be followed into the metastable region, and those for $K_2FeO_4 \cdot SiO_2$, $K_2FeO_4 \cdot H_2O$, and $K_2FeO_4 \cdot SiO_2$ lie entirely in the metastable region. Solubility data for stable and metastable phases at the same temp. are compared. E. S. H.

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Polymers of the ternary system Na_2SO_4 - Na_2CO_3 - H_2O . M. I. Rayitskii (*Bull. Acad. Sci. U.R.S.S., Chem.*, 1943, 233). Solution isotherms for the ternary system were determined at 0°, 25°, 50°, and 80-8°. Within this temp. range no evidence could be found for the formation of a double salt. Systems containing $\text{Na}_2\text{CrO}_4 \cdot 10\text{H}_2\text{O}$ and $\text{Na}_2\text{CrO}_4 \cdot 6\text{H}_2\text{O}$ were also investigated. The results are presented in tables and graphs. V. H.

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C		Purification of brine for electrolysis. A. F. Kozlovskiy and M. I. Rastvorov (J. Chem. Ind., Russ., 1963, No. 4, 66-69).—Elimination of SO_4^{2-} , Ca^{2+} , and Mg^{2+} is effected by addition of BaCl_2 , NaOH , and Na_2CO_3 , and removing the ppt., together with other insol. matter originally present in suspension. The best results are obtained by using the following quantities of reagents (g. per liter of brine): BaCl_2 50.0, $120 \cdot 10[\text{SO}_4^{2-}] + A$, NaOH (equiv.) $+ 100[\text{Ca}^{2+}] + B$, and Na_2CO_3 $100[\text{Mg}^{2+}] + 100[\text{Ca}^{2+}] + A + B$, where A is the necessary excess of BaCl_2 (equiv.), B that of NaOH , and C that of Na_2CO_3 . The val. of B is very close to zero, as even a small excess of NaOH augments the solubility of CaCO_3 ; C is independent of temp., and depends on $[\text{SO}_4^{2-}]$ and A depends on C and on the interval of time elapsing between addition of BaCl_2 and NaOH . Applying the above formulae, and keeping the brine 24 days before filtration, a filtrate is obtained containing Na_2SO_4 0.4, BaCl_2 0.8, CaCO_3 1.1, and H_2O 0.45 mg. per liter.		B-278	
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Co-solubility of disubstituted sodium and potassium orthophosphates. M. I. Ryzitskii and Z. V. Popova (*Dokl. Akad. Nauk S.S.S.R.*, 1943, 264—273).—Solubility isotherms at 0° and 25° of the system K_2HPO_4 - Na_2HPO_4 - H_2O have been determined. The existence of $KNaHPO_4 \cdot 5H_2O$ ($n_1 = 1.666$, $n_2 = 1.665$) is shown.
E. A. H.

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Singular elements in the ternary system: Minimum eutectic eutectic-water.. Effect of hydration. M. A. Baryan (Ann. Inst. Anal. phys. chim. U.S.S.R., 1955, V, 285-294; cf. A., 1955, 285).—Isotopes have been determined at 0°, 10°, 20°, 30-40°, and 120°. Ch. Ann. (c)																							
A10-11A METALLURGICAL LITERATURE CLASSIFICATION																							
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Polytherm of the ternary system $\text{KNO}_3\text{-K}_2\text{CrO}_7\text{-H}_2\text{O}$. M. I. Ravitsch and E. V. Frolova (*Bull. Acad. Sci., U.R.S.S., Cl. Sci. Chim.*, 1944, 92-94, cf. A., 1944, 1, 230).--Solubility isotherms for the systems $\text{KNO}_3\text{-H}_2\text{O}$, $\text{K}_2\text{CrO}_7\text{-H}_2\text{O}$, and $\text{KNO}_3\text{-K}_2\text{CrO}_7\text{-H}_2\text{O}$ are determined at 0°, 25°, 50°, and 80-85°. No evidence of formation of compounds is found. Above 116° ($\text{KNO}_3\text{-K}_2\text{CrO}_7$) the solubility curve passes into the fusion curve up to the point 336° (3.3% K_2CrO_7). In this the system resembles $\text{NaNO}_3\text{-Na}_2\text{CrO}_7\text{-H}_2\text{O}$ (*ibid.*). Tables and curves are given. R. To.

Polymers of the ternary system KNO_3 - K_2CO_3 - H_2O . M. I. Ravitskiy and E. V. Frolova (*Bull. Acad. Sci., U.R.S.S., U.S. Ser. Chem.*, 1964, 92, 264; cf. A., 1964, 1, 230).—Solubility isotherms for the systems KNO_3 - H_2O , K_2CO_3 - H_2O , and KNO_3 - K_2CO_3 - H_2O are determined at 0°, 25°, 50°, and 70-5°. No evidence of formation of compounds is found. Above 116° (KNO_3 - K_2CO_3) the solubility curve passes into the fusion curve up to the point 336° (33°, K_2CO_3). In this the system resembles NaNO_3 - Na_2CO_3 - H_2O (*ibid.*). Tables and curves are given.

K. To.

A 50-514 METALLURGICAL LITERATURE CLASSIFICATION

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Catalytic effect of oxides of rare elements on combustion of hydrogen.
 M. V. Ravitsch and S. A. Zacharev (Compt. rend. Acad. Sci. U. R. S. S.,
 1960, 27, 473--476). The effect of Th and Ce oxides, and of oxides of
 other rare-earth elements contained in Khibin apatites, as activating agents
 for the surface combustion of H on chamotte has been studied by measurements
 of the rate of decrease of pressure of O-H mixtures at 1 mm. pressure. With
 10% of a 99; 1 ThO₂; Ce₂O₃ mixture, the rate of combustion at 600° was that
 at 700° on unactivated chamotte, and at 800° was approx. without admixture of
 Th produced a similar effect. A natural mixture of rare-earth oxides contain-
 ing 30% of Ce oxide was equal in activity to pure Ce oxide. These effects
 are more pronounced than when V₂O₅ is used as activator, but slightly infer-
 ior to those produced by Bi and Pb. The activity is depressed by heating at
 950°.

AS - 11.8 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESSES AND PROPERTIES INDEX																			
<i>Handwritten: B</i> Solubility curves of secondary and tertiary potassium orthophosphates in water, M. I. Davidenko (Bull. Acad. S. U.S.S.R., 1966, Ser. Chem., 127-128). The data show that the stable phases are: $K_2HPO_4 \cdot 6H_2O$ (-15° to -16.3°), $K_2HPO_4 \cdot 3H_2O$ (-14.3 to -46° approx.), K_2HPO_4 ($> 46^\circ$), $K_3PO_4 \cdot 3H_2O$ (-26° to -16°), $K_3PO_4 \cdot 7H_2O$ (-18° to -45.4°), $K_3PO_4 \cdot 3H_2O$ ($> 45.4^\circ$). <i>Handwritten: H</i>																			
ASB-56 METALLURGICAL LITERATURE CLASSIFICATION 10000																			

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